

CLAIMS

1. A text generation method for generating a text including a sentence, comprising:

an input step for inputting at least a word as a keyword,

an extracting step for extracting, from a database, a text or a phrase related to the keyword, and

a text generation step for generating an optimum text based on the input keyword by combining the extracted text or phrase.

2. A text generation method according to claim 1, further comprising: in an arrangement where the text is extracted in the extracting step, morphological analyzing and parsing the extracted text in the text generation step, acquiring a dependency structure of the text, and generating a dependency structure containing the keyword.

3. A text generation method according to claim 2, further comprising: in the course of generating the dependency structure containing the keyword in the text generation step, determining the probability of dependency of the entire text using a dependency model, and

wherein generating a text having a maximum probability

as an optimum text.

4. A text generation method according to one of claims 2 and 3, further comprising: in the middle of or after the generation of the dependency structure in the text generation step, generating an optimum text having a natural word order based on a word order model.

5. A text generation method according to one of claims 1 through 4, further comprising: in the text generation step, determining by a learning model whether there is a word to be inserted between any two keywords in all arrangements of the keywords, and performing a word insertion process starting with a word having the highest probability in the learning model, wherein the word insertion means performs the word insertion process by including, as a keyword, or then removing the word as the keyword, repeating the cycle of word inclusion and removal until a probability that there is no word to be inserted between any keywords becomes the highest.

6. A text generation method according to one of claims 1 through 5, wherein in an arrangement where the database contains a text having a characteristic text pattern, the text generation step generates a text in compliance with the

characteristic text pattern.

7. A text generation apparatus for generating a text of a sentence, comprising:

input means for inputting at least one word as a keyword,

extracting means for extracting, from a database containing a plurality of texts, a text or a phrase related to the keyword, and

text generation means for generating an optimum text based on the input keyword by combining the extracted text or phrase.

8. A text generation apparatus according to claim 7, wherein in an arrangement where the text extracting means extracts the text, the text generation means comprises parser means for morphologically analyzing and parsing the extracted text, and acquiring a dependency structure of the text, and dependency structure generation means for generating a dependency structure containing the keyword.

9. A text generation apparatus according to claim 8, wherein in the text generation means, the dependency structure generation means determines the probability of dependency of the entire text using a dependency model, and

generates a text having a maximum probability as an optimum text.

10. A text generation method according to one of claims 8 and 9, wherein in the middle of or prior to the generation of the dependency structure, the text generation means generates an optimum text having a natural word order based on a word order model.

11. A text generation apparatus according to one of claims 7 through 10, wherein the text generation means comprises word insertion means that determines, using a learning model, whether there is a word to be inserted between any two keywords in all arrangements of the keywords, and performs a word insertion process starting with a word having the highest probability in the learning model, wherein the word insertion means performs the word insertion process by including, as a keyword, or then removing the word as the keyword, and by repeating the cycle of word inclusion and removal until a probability that there is no word to be inserted between any keywords becomes the highest.

12. A text generation apparatus according to one of claims 7 through 11, wherein in an arrangement where the database contains a text having a characteristic text

pattern, the text generation means generates a text in compliance with the characteristic text pattern.

13. A text generation apparatus according to claim 12, comprising pattern selecting means that contains one or a plurality of databases containing texts having a plurality of characteristic text patterns, and selects a desired text pattern from the plurality of text patterns.